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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/086,775	03/01/2002	Paul Joseph Berlowitz	JJD-0101	8963
27810 75	90 05/02/2005		EXAMINER	
EXXONMOBIL RESEARCH AND ENGINEERING COMPANY			TOOMER, CEPHIA D	
P.O. BOX 900 1545 ROUTE 2	2 FAST		ART UNIT	PAPER NUMBER
ANNANDALE, NJ 08801-0900			1714	-

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>		iv				
	,	Application No.	Applicant(s)				
Office Action Summary		10/086,775	BERLOWITZ ET AL.				
	Office Action Summary	Examiner	Art Unit				
	T. 11411 (1) C. D. 175 . (4)	Cephia D. Toomer	1714				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	orrespondence address				
THE - External after - If the - If NO - Failure - Any (ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a rep period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 20	January 2005.					
·	This action is FINAL . 2b) This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1 and 4-12 is/are pending in the app 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1 and 4-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	awn from consideration.					
Applicat	ion Papers						
9)[The specification is objected to by the Examin	er.					
10)	The drawing(s) filed on is/are: a) ac	cepted or b) objected to by the	Examiner.				
	Applicant may not request that any objection to the	- · ·					
11)□	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E						
Priority (under 35 U.S.C. § 119	·					
a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmen	t(s)						
1) Notice 2) Notice 3) Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 tr No(s)/Mail Date 07/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:					

DETAILED ACTION

This Office action is in response to the amendment filed January 20, 2005 in which claim 1 was amended and claims 2-3 were canceled.

The rejection of claims under 103 over EP 1152049 is withdrawn in view of the amendment to claim 1 and Applicant's argument that EP teaches a hydrocarbon in water emulsion.

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1 and 4-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 9913031 for the reasons of record.

Applicant argues that Berlowitz does not mention improving particulate emissions by reducing the hydrocarbon particle size. Applicant argues that the data of Examples 1 and 2 and comparative example 1 show that particle size correlates directly to particulate emissions. Applicant argues that Berlowitz never even mentions the words "particle size" and that the examiner has not shown that the knowledge that particle sizes of 1 micron or less improves emissions was generally available to one of skill in the art.

Berlowitz teaches a macroemulsion fuel composition comprising a Fischer-Tropsch fuel/conventional fuel blend. Berlowitz teaches that it is known that the use of aqueous fuel emulsions reduces pollutants such as particulate emissions and NO_x (see page 1, third paragraph and page 5, second full paragraph). While Berlowitz does not

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specifically mention the particle size of the hydrocarbon, Berlowitz does teach a macroemulsion and it is known in the art that particles in macroemulsions may be as small as 0.2 microns. It is clear that the claimed particle size and that of Berlowitz overlaps.

With respect to Applicant's data, Applicant is comparing an emulsified fuel (present invention) to a fuel that is not emulsified. Berlowitz clearly teaches that emulsified fuels reduce particulate emissions and Applicant has not shown that in an emulsified Fischer-Tropsch/conventional fuel blend that the particle size of the hydrocarbon produces unexpected results.

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cephia D. Toomer whose telephone number is 571-272-1126. The examiner can normally be reached on Monday-Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gephia D. Toomer Primary Examiner

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